

ABSTRACT OF THE DISCLOSURE

An electric dust collecting apparatus includes at least one needle electrode for charging floating particles in air by generating corona discharge around needle points; at least one collecting electrode provided on cell-liked arrangement corresponding to the needle electrodes, for attracting and collecting the charged floating particles by an electrostatic force; and at least one deflection electrode having a rectangularly hollow longitudinal structure comprised of a front plate portion and side plate portions and fixed the needle electrodes on the front plate portion, for applying a deflection force to the charged floating particles to move toward the collecting electrodes by a potential applied from the side plate portions, wherein the at least one deflection electrode having the rectangularly hollow longitudinal structure is obtained from bending a profile plate punched up a sheet metal by a predetermined punch press process, accordingly, the plurality of deflection electrodes can be integratedly formed from a profile punched up a sheet metal by the punching and bending press process, enabling the manufacturing process to have workability and productivity.

This Sheet Has Been Replaced

